## **Table of Contents**

## Volume 36, 1983

Number 1, January		Habitat Selection and Vegetational Characteristics of Antelope Fawn	
Prescribed Burning on B.C. Rangelands: the State of the Art-	,	Bedsites in West Texas—Ronald D. Tucker and Gerald W. Garner	110
Burning and 2,4,5-T Application on Mortality and Carbohydrate Reserves in Saw-palmetto—R.S. Kalmbacher, K.J. Boote, and	3	Successional Trends in an Ungrazed, Arid Grassland Over a Decade—Edgar F. Kleiner	114
F.G. Martin Vegetational Evaluation of Pinyon-Juniper Cabling in South-Central	9	Correcting for Salivary Contamination of Esophageal Fistula Samples— Richard H. Hart  A Point Frame for Circular Plots in Southern Forest-Ranges—R.L.	119
New Mexico—Paul Rippel, Rex D. Pieper, and Gordon A. Lymbery	13	Baker and C.E. Thomas  A Modified 100-Point Frame for Vegetation Inventory—Faisal K.	121
Coyote Predation on Sheep, and Control by Aversive Conditioning in Saskatchewan— D.E. Jelinski, R.C. Rounds, and J.R. Jowsey	14	Taha, H.G. Fisser, and R.E. Ries  Analytical Reliability in the Decision-Making Process—the Numbers	124
Mortality of Cattle on Two Types of Grazing Areas in Northwestern	16	Game—Richard McQuisten and Karl A. Gebhardt Rangeland Ponding Dikes: Design Criteria—John M. Tromble	126 128
Alberta—Ronald R. Bjorge  Effectiveness of Antelope Pass Structures in Restriction of Livestock— Bryan D. Gross, Jerry L. Holechek, Dennis Hallford, and Rex D.	20	Pedicellate Spikelet Fertility in Big Bluestem from Eastern South Dakota—A. Boe, J.G. Ross, and R. Wynia	
Pieper	22	Disappearing Forbs in Microhistological Analysis of Diets—M.J. Samuel and Gene S. Howard	132
Use of Reciprocal Averaging Ordination for the Study of Range Condition Gradients—Ron B. Hacker The Influence of Dietary Nitrogen Source and Drinking Water pH on Growth, Digestibility, and Nitrogen Metabolism in Lambs Fed a	25	"Improved" Sand Dams for Wildlife Habitat Management—Vernon C. Bleich and Richard A. Weaver	
High Roughage Diet-M.L. Galyean, D.G. Morrical, Roberta		Number 2, March	
Hayes, and Joel Caton An Important Lichen of Southeastern Montana Rangelands—James	31	President's Address—John W. Bohning	138
G. MacCracken, Lynn E. Alexander, and Daniel W. Uresk	35	Principles of Intensive Range Improvements—Carlton H. Herbel	
Beef Cattle Performance on Crested Wheatgrass plus Native Range vs. Native Range Alone—R.H.Hart, J.W. Waggoner Jr., D.H. Clark, C.C. Kaltenbach, J.A. Hager, and M.B. Marshall	38	Soil Movement in Mesquite Dunelands and Former Grasslands of Southern New Mexico from 1933 to 1980—R.P. Gibbens, J.M.	140
Supplementation of Yearling Steers Grazing Fertilized and Unfertilized Northern Plains Rangeland—J.F. Karn and R.J. Lorenz	41	Tromble, J.T. Hennessy, and M. Cardenas	145
Quality of Forage and Cattle Diets on the Wyoming High Plains— R.H. Hart, O.M. Abdalla, D.H. Clark, M.B. Marshall, A.H.	71	Herbicide Treatment and Vegetation Response to Treatment of Mesquites in Southern New Mexico—Carlton H. Herbel, Walter L. Gould, William F. Leifeste, and Robert P. Gibbens	149
Hamid, J.A. Hager, and J.W. Waggoner, Jr.  Herbage Production and Quality of Grasses with Livestock and Wild-	46	Impact of Range Goats on Infiltration Rates in Southwestern Utah— Gerald F. Gifford, Frederick D. Provenza, and John C. Malechek	
life Value in Texas-W.D. Pitman and E.C. Holt	52		152
Agronomic and Acetylene Reduction Evaluation of Three Annual Medics—Mark A. Smith and Arden A. Baltensperger	55	Infiltration Rates and Sediment Production Following Herbicide/- Fire Brush Treatments—IRobert W. Knight, W. H. Blackburn, and C.J. Scifres	154
Mountains of Oregon-Ronald E. Gaither and John C. Buckhouse		Mitigation of Chaining Impacts to Archaeological Sites-William R.	
Influence of Heteromyid Rodents on Oryzopsis hymenoides Germination—	58	Haase Spring Burning Effects on Redberry Juniper-Mixed Grass Habitats—	158
Kent McAdoo, Carol C. Evans, Bruce A. Roundy, James A. Young, and Raymond A. Evans	61	Allen A. Steuter and Henry A. Wright	161
Differential Grazing Use of Herbicide-treated Areas by Cattle—C.J. Scifres, J.R. Scifres, and M.M. Kothmann	65	Bryant, G.K. Launchbaugh, and B.H. Koerth	165
Effects of Single and Sequential Defoliations on the Carbohydrate Reserves of Four Range Species—John W. Menke and M.J.	-	Texas—Stephen C. Bunting, Henry A. Wright, and Walter H. Wallace	169
Trlica Cytokinins Effect on Protein and Chlorophyll Content of Big Blue-	70	Microclimate Modification of Tall Moist Grasslands of Natal by	172
stem Leaves—Gene Towne and Clenton Owensby	75	Spring Burning—M.J. Savage and K. Vermeulen Influence of Spring Burning on Cattle Diets and Performance on the Edwards Plateau—Allan McGinty, Fred E. Smeins, and Leo B. Merrill	
wing Saltbush (Atriplex canescens) at Two Sites in Central Utah— E. Durant McArthur, Richard Stevens, and A. Clyde Blauer	78	Prescribed Burning in the Northern Great Plains: Yield and Cover	17:
Quantity and Germinability of Oryzophis hymenoides Seed in Lahontan Sands—James A. Young, Raymond A. Evans, and Bruce A.		Responses of 3 Forage Species in the Mixed Grass Prairie— Richard S. White and Pat O. Currie	179
Roundy Improvement of Eastern Nebraska Tallgrass Range Using Atrazine or	82	Elk Use of Winter Range as Affected by Cattle Grazing, Fertilizing, and Burning in Southeastern Washington—Jon M. Skovlin, Paul	
Glyphosate—S.S. Waller and D.K. Schmidt Crested Wheatgrass—Early History in the United States—George A.	87 91	J. Edgerton, and Burt R. McConnell  Topographic and Habitat Use by Sympatric Barbary Sheep and Mule	184
Rogler and Russell J. Lorenz Presowing Seed Treatment and Temperature Effects on Germination of Engelmannia pinnatifida and Indigofera miniata var. leptosepala—	71	Deer in Palo Duro Canyon, Texas—C. David Simpson and Gary G. Gray  Habitat Use of Feral Horses and Cattle in Wyoming's Red Desert—	190
D.C. Kissock and M.R. Haferkamp	94	Richard Miller	19:
Response of Forage Species Seeded for Mule Deer in Western Juniper Types of Southcentral Oregon—Donavin A. Leckenby and Dale E.	98	Seasonal Movements and Home Ranges of Feral Horse Bands in Wyoming's Red Desert—Richard Miller	199
Toweill White-tailed Deer Food Habits and Nutritional Status as Affected by	30	Control of Grasshoppers on Rangeland in the United States—A Perspective—George B. Hewitt and Jerome A. Onsager	202
Grazing and Deer-Harvest Management—R.J. Warren and L.J. Krysl	104	Multivariate Statistical Methods to Determine Changes in Botanical Composition—Walter W. Stroup and J. Stubbendieck	200

Estimation of Plant Biomass by Spectral Reflectance in an East African Grassland—Thomas W. Boutton and Larry L. Tieszen		Huisache Growth Browse Quality, and Use Following Burning— G.A. Rasmussen, C.J. Scifres, and D.L. Drawe	337
	213	Fire-induced Mortality of Redberry Juniper [Juniperus pinchotii	20.
Comparison of Techniques Used for Adjusting Biomass Estimates by Double Sampling—Javed Ahmed, Charles D. Bonham, and Wil-		Sudw.]— Allen A. Steuter and Carlton M. Britton Fuel-load Reductions Resulting from Prescribed Burning in Grazed	343
	217	and Ungrazed Douglas-fir Stands-G. Thomas Zimmerman and	
Nutritive Value and Intake of Kleberg Bluestem by Beef Cattle—M.E.		Leon F. Neuenschwander	346
Pacheco, R.D. Brown, and R.L. Bingham	222	Response of Wildlife Food Plants to Spring Discing of Mesquite Rangeland in Northwest Texas—William M. Webb and Fred S.	
**** **********************************	225	Guthery	351
Drought Effects on Diet and Weight Gains of Yearling Heifers in	222	Evaluation of a Fertilized 3-pasture System Grazed by Yearling	
Northeastern Oregon—Jerry Holechek and Martin Vavra  Blue Grama [Bouteloua gracilis] Response to Fertilization of a Clay-	221	Steets—Paul E. Nyren, Warren C. Whitman, James L. Nelson, and Thomas J. Conlon	354
pan Soil in the Greenhouse—E.M. White, F.R. Gartner, and R.		Effects of Annual Apoplications of Low N Fertilizer Rates on a	334
	232		359
Relationship between Carbohydrate Nitrogen Contents, and Regrowth		Ecological Characteristics and Control of Gambel Oak-D.M. Engle,	
of Tall Fescue Tillers-J. Bahrani, E.R. Beaty, and K.H.		C.D. Bonham, and L.E. Bartel	363
	234	Effect of Weedy Annuals on the Survival and Growth of Transplants	
Yield, Vigor, and Persistence of Sand Lovegrass [Eragrostis tri- chodes] (Nutt.) Wood] Following Clipping Treatments—Lowell E.		Under Arid Conditions—Gordon A. Van Epps and Cyrus M. Mc- Kell	366
Moser and L.J. Perry	236	Vegetation Changes from 1935 to 1980 in Mesquite Dunelands and	300
Reducing Seed Dormancy in Indian Ricegrass [Oryzopsis hymenoides—	250	Former Grasslands of Southern New Mexico—J.T. Hennessy,	
	239	R.P. Gibbens, J.M. Tromble, and M. Cardenas	370
Germination Characteristics of Two Varieties of Kochia prostrata		Relationship between Cutler Mormon-Tea [Ephedra cutleri] and	
(L.)Schrad-S.S. Waller, C.M. Britton, D.K. Schmidt, J. Stub-		Coppice Dunes in Determining Range Trend in Northeastern	
bendieck, and F.A. Sneva	242	Arizona—Harmon S. Hodgkinson	375
	246	Economics of Gypsum and Elemental Sulfur as Fertilizers on Subcover-grass Pastures in Northern California—D.M. Center	
Population Dynamics and Age Relationships of 8 Tree Species in	240	and M.B. Jones	378
Navajo National Monument, Arizona-J.D. Brotherson, S.R.		Short-term Changes in a Cottonwood-Ash-Willow Association on a	
Rushforth, W.E. Evenson, J.R. Johansen, and C. Morden	250	Grazed and an Ungrazed Portion of Little Ash Creek in Central	
Shade Intensity Influences the Nutrient Quality and Digestibility of		Arizona—Robert C. Szaro and Charles P. Pase	382
Southern Deer Browse Leaves—Robert M. Blair, Rene Alcaniz,	267	Cattle Trampling of Simulated Ground Nests under Short Duration	
and Austin Harrell  Effects of Cattle and Deer on Regenerating Mixed Conifer Clearcuts—	231	and Continuous Grazing—B.H. Koerth, W.M. Webb, F.C. Bryant, and F.S. Guthery	206
Barbara H. Kosco and James W. Bartolome	265	Seedbed Ecology of Winterfat: Fruits Versus Threshed Seeds—D.	363
A Tractor-powered Method for Installing Earth Anchors during		Terrance Booth and Gerald E. Schuman	387
Fence Construction—Dennis M. Mueller	269	Germination Requirements of Green Needlegrass (Stipa viridula Trin.)—Timothy E. Fulbright, Edward F. Redente, and A.M. Wil-	
			200
		son	390
		'Magnar'Basin Wildrye-Germination in Relation to Temperature—	
Number 3, May		*Magnar'Basin Wildrye-Germination in Relation to Temperature—  Raymond A. Evans and James A. Young	390 395
		son 'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend	
Attentiveness of Guarding Dogs for Reducing Predation on Domestic		'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Veget-	395 399
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi	275	'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White	395 399
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in	275	'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag—	395 399 402
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman,		'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Veget- ative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland	275 280	'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag—	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage	280	'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Veget- ative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland		'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Veget- ative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel	280 286	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young  Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend  Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams**  BOOK NOTED	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen	280	'Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams BOOK NOTED  Number 4, July	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebu-	280 286 289	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young**  Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—**W.J. McGinnies and C.E. Townsend**  Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—**Larry M. White**  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams**  BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama)	395 399 402 405 407
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres	280 286	**Magnar Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young**  Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend**  Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams**  BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt	395 399 402 405
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebu-	280 286 289	*Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams BOOK NOTED  Number 4, July  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J. H. Everitt Response of Soft Chess (Bromus mollis) and Slender Oat (Avena	395 399 402 405 407
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of	280 286 289 295	**Magnar Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—**W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—**Larry M. White.** An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July** Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—**J. H. Everitt* Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—**Anne L. Ewing and John W. Menke**	395 399 402 405 407
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger	280 286 289 295 298	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend**.  Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED**  Number 4, July  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke**  Desert Saltgrass Seed Germination and Seedbed Ecology—G.J.	395 399 402 405 407 411
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger	280 286 289 295 298	*Magnar'Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams BOOK NOTED  Number 4, July  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke Desert Saltgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung	395 399 402 405 407
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger	280 286 289 295 298	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saligrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 19119  Effect of Cultural Practices on Seeded Plant Communities on Inten-	395 399 402 405 407 411
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger	280 286 289 295 298 302	**Magnar Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White.  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J. H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke.  Desert Saltgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E.	395 399 402 405 407 411 415 419
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite	280 286 289 295 298	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saligrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 19119  Effect of Cultural Practices on Seeded Plant Communities on Inten-	395 399 402 405 407 411
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford,	280 286 289 295 298 302	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saltgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seedded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers	395 399 402 405 407 411 415 419
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin	280 286 289 295 298 302	**Magnar Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White.  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J. H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke.  Desert Saltgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency	395 399 402 405 407 411 415 419 423 429
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter	280 286 289 295 298 302 307	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White.  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Sallgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff  Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari	395 399 402 405 407 411 415 419
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter Range—Donavin A. Leckenby and Dale E. Toweill	280 286 289 295 298 302	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED**  Number 4, July  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saligrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari  Nutrient and Sediment Discharge from Southern Plains Grasslands—S.J.	395 399 402 405 407 411 415 419 423 429
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter Range—Donavin A. Leckenby and Dale E. Toweill  Fistula Sample Numbers Required to Determine Cattle Diets on	280 286 289 295 298 302 307 309 312 316	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend** Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White.  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams** BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Sallgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff  Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari	395 399 402 405 407 411 415 419 423 429
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter Range—Donavin A. Leckenby and Dale E. Toweill  Fistula Sample Numbers Required to Determine Cattle Diets on Forest and Grassland Range—J.L. Holechek and M. Vavra	280 286 289 295 298 302 307 309 312 316	*Magnar Basin Wildrye-Germination in Relation to Temperature— Raymond A. Evans and James A. Young Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White An Improved Method for Attaching the Esophageal Fistula Bag— R.J. Kartchner and D.C. Adams BOOK NOTED  Number 4, July  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J.H. Everitt Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saligrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot Life History and Management—Raymond D. Ratliff Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari Nutrient and Sediment Discharge from Southern Plains Grasslands—S.J. Smith, R.G. Menzel, E.D. Rhoades, J.R. Williams, and H.V. Eck Nonstructural Carbohydrate and Crude Protein in Pinegrass Storage	395 399 402 405 407 411 415 419 423 429 431 435
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Response of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter Range—Donavin A. Leckenby and Dale E. Toweill  Food Habits of Nilgai Antelope in Texas—William J. Sheffield  Fistula Sample Numbers Required to Determine Cattle Diets on Forest and Grassland Range—J.L. Holechek and M. Vavra.  Vehicle Impacts on Northern Great Plains Range Vegetation—Gene	280 286 289 295 298 302 307 309 312 316 323	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend**. Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams**.  BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J. H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saligrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari  Nutrient and Sediment Discharge from Southern Plains Grasslands—S.J. Smith, R.G. Menzel, E.D. Rhoades, J.R. Williams, and H.V. Eck  Nonstructural Carbohydrate and Crude Protein in Pinegrass Storage Tissues—Darryl G. Stout, Michio Suzuki, and B. Brooke	395 399 402 405 407 411 415 419 423 429 431
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Responses of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter Range—Donavin A. Leckenby and Dale E. Toweill  Food Habits of Nilgai Antelope in Texas—William J. Sheffield  Fistula Sample Numbers Required to Determine Cattle Diets on Forest and Grassland Range—J.L. Holechek and M. Vavra  Vehicle Impacts on Northern Great Plains Range Vegetation—Gene  F. Payne, John W. Foster, and Wayne C. Lelninger	280 286 289 295 298 302 307 309 312 316	**Magnar'Basin Wildrye-Germination in Relation to Temperature—Raymond A. Evans and James A. Young  Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend  Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag—R.J. Kartchner and D.C. Adams  BOOK NOTED  **Note The Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J. H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saltgrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff  Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari  Nutrient and Sediment Discharge from Southern Plains Grasslands—S.J. Smith, R.G. Menzel, E.D. Rhoades, J.R. Williams, and H.V. Eck  Nonstructural Carbohydrate and Crude Protein in Pinegrass Storage  Tissues—Darryl G. Stout, Michio Suzuki, and B. Brooke  Soil Characteristics Related to Production on Subclover-Grass	395 399 402 405 407 411 415 419 423 429 431 435
Attentiveness of Guarding Dogs for Reducing Predation on Domestic Sheep—Ray Coppinger, Jay Lorenz, John Glendinning, and Peter Pinardi  Molybdenosis in an Area Underlain by Uranium-bearing Lignites in the Northern Great Plains—Laura R. Stone, James A. Erdman, Gerald L. Feder, and Heinrich D. Holland  Effect of Soil Contamination on the Mineral Composition of Forage Fertilized with Nitrogen—H.F. Mayland and F.A. Sneva  Plant-Soil Relationships on Bentonite Mine Spoils and Sagebrush-Grassland in the Northern High Plains—Carolyn Hull Sieg, Daniel W. Uresk, and Richard M. Hansen  Influence of Clay and Organic Matter of Rangeland Soils on Tebuthiuron Effectiveness—K.W. Duncan and C.J. Scifres  Distribution of Dry Matter and Chemical Constituents in Plant Parts of Four Florida Native Grasses—R.S. Kalmbacher  A Comparison of Four Methods Used to Determine the Diets of Large Herbivores—M.L. McInnis, M. Vavra, and W.C. Krueger  Summer Food Habits of Domestic Sheep in Southeastern Montana—Lynn E. Alexander, Daniel W. Uresk, and Richard M. Hansen  Response of Selected Wildlife Species to the Removal of Mesquite from Desert Grassland—David J. Germano, Roger Hungerford, and S. Clark Martin  Response of Selected Plant Species Seeded on Mule Deer Winter Range—Donavin A. Leckenby and Dale E. Toweill  Food Habits of Nilgai Antelope in Texas—William J. Sheffield  Fistula Sample Numbers Required to Determine Cattle Diets on Forest and Grassland Range—J.L. Holechek and M. Vavra.  Vehicle Impacts on Northern Great Plains Range Vegetation—Gene	280 286 289 295 298 302 307 309 312 316 323 327	**Magnar'Basin Wildrye-Germination in Relation to Temperature— **Raymond A. Evans and James A. Young** Yield of Three Range Grasses Grown Alone and in Mixtures with Legumes—W.J. McGinnies and C.E. Townsend**. Seasonal Changes in Yield, Digestibility, and Crude Protein of Vegetative and Floral Tillers of Two Grasses—Larry M. White  An Improved Method for Attaching the Esophageal Fistula Bag— **R.J. Kartchner and D.C. Adams**.  BOOK NOTED  **Number 4, July**  Seed Germination Characteristics of Two Woody Legumes (Retama and Twisted Acacia) from South Texas—J. H. Everitt  Response of Soft Chess (Bromus mollis) and Slender Oat (Avena barbata) to Simulated Drought Cycles—Anne L. Ewing and John W. Menke  Desert Saligrass Seed Germination and Seedbed Ecology—G.J. Cluff, R.A. Evans, and J.A. 1 Jung  Effect of Cultural Practices on Seeded Plant Communities on Intensively Disturbed Soils—T.B. Doerr, E.F. Redente, and T.E. Sievers  Nebraska Sedge (Carex nebraskensis Dewey): Observations on Shoot—Life History and Management—Raymond D. Ratliff Chlorophyll, Dry Matter, and Photosynthetic Conversion-Efficiency Relationships in Warm-season Grasses—U.G. Bokari  Nutrient and Sediment Discharge from Southern Plains Grasslands—S.J. Smith, R.G. Menzel, E.D. Rhoades, J.R. Williams, and H.V. Eck  Nonstructural Carbohydrate and Crude Protein in Pinegrass Storage Tissues—Darryl G. Stout, Michio Suzuki, and B. Brooke	395 399 402 405 407 411 415 419 423 429 431 435

Forage Standing Crop and Animal Diets Under Rotational vs. Con-	447	Relationship of Relative Total Alkaloid Concentration and Toxicity	***
tinuous Grazing—Steven H. Sharrow  Habitat Differences between Basin and Wyoming Big Sagebrush in Contiguous Populations—Jerry R. Barker and Cyrus M. McKell	447	of Duncecap Larkspur during Growth—John D. Olsen  The Use of Regression Models to Predict Spatial Patterns of Cattle Behavior—R.L. Sneft, L.R. Rittenhouse, and R.G. Woodman-	550
Comparison of Big Sagebrush Vegetation in Northcentral New Mex-	450	State of Dry Matter and Nutrients in Soil-Plant Systems of Arizona	553
ico under Moderately Grazed and Grazing Excluded Conditions— Jerry L. Holechek and Thor Stephenson	455	Fescue and Mountain Muhly—James O. Klemmedson The Suitability of Commercially Available Grass Species for Revege-	558
A Method for Mapping Vegetation Utilizing Multivariate Statistical Techniques—Terry McLendon and Bill E. Dahl		tation of Montana Ski Area—Mark J. Behan  Yaupon and Associated Vegetation Response to Seasonal Tebuthiu-	565
Unbiased Systematic Sampling Plans for the Line Intercept Method-		ron Applications K. W. Duncan and C.J. Scifres	568
Susan Ann Builer and Lyman L. McDonald  A Comparison of Three Methods for Estimating Forage Disappear-	463	Herbage Quality of Fertilized Cool-Season Grass-Legume Mixtures in Western Nebraska—R.D. Schultz and J. Stubbendieck	571
ance-S.H. Sharrow and I. Motazedian	469	Influence of Vesicular-Arbuscular Mycorrhizal Fungi on the Nodula-	
Estimating Snowberry [Symphoricarpos oreophilus] Utilization by Sheep from Twig Diameter-Weight Relations—G.B. Ruyle, James		tion and Growth of Subclover—Norman E. Green, Michael D. Smith, William D. Beavis, and Earl F. Aldon	576
E. Bowns, and Al F. Schlundt  Mastication Effects on Cattle Diet Determined by Microhistological  Analysis—Bryan D. Gross, Elfatih Mahgoub, and Jerry L. Hole-	472	Effects of Long-term Grazing on Cryptogam Crust Cover in Navajo National Monument, Ariz.—Jack D. Brotherson, Samuel R. Rushforth, and Jeffrey R. Johansen	579
chek Fiber Effects on Microhistological Analysis—Hashim K. Mukhtar	475	Clipping Frequency and Fertilization Influence Herbage Yields and Crude Protein Content of 4 Grasses in South Texas—J.L. Mutz	-
and Richard M. Hansen	477	and D. Lynn Drawe  Soil Bulk Density as Influenced by Grazing Intensity and Soil Type on	582
seeded with Alfalfa-R.J. Kartchner, J.R. Wight, J.L. Bishop, and		a Shortgrass Prairie Site-Bruce P. Van Haveren	586
R.A. Bellows Gains of Steers and Calves Grazing Crested Wheatgrass—R.H. Hart,	479	Spring Livestock Grazing Affects Crested Wheatgrass Regrowth and Winter Use by Mule Deer—Dennis D. Austin, P.J. Urness, and L.C. Fierro	589
E.F. Balla, and J.W. Waggoner, Jr.  Mule Deer Preference and Monoterpenoids (Essential Oils)—Bruce		Rotational vs. Continuous Grazing Affects Animal Performance on	389
L. Welch, E. Durant McArthur, and James N. Davis Food Habits of Mountain Goats, Mule Deer, and Cattle on Chopaka		Annual Grass-Subclover Pasture—Steven H. Sharrow  Modeling Big Sagebrush as a Fuel—William H. Frandsen	
Mountain, Washington, 1977-1980-Erick G. Campbell and Rolf		Low-energy Grubbing with Special Blade to Control Algerita - B. T.	
L. Johnson	488	Cross and H.T. Wiedemann	601
tridentata)—Joy D. Cedarleaf, Bruce L. Welch, and Jack D. Brotherson	492	Clark Martin The Effects of Prescribed Burning on Silver Sagebrush—Richard S.	604
Impact of Feral Herbivores on Mamane Forests of Mauna Kea,		White and Pat O. Currie	
Hawaii: Bark Stripping and Diameter Class Structure—Paul G. Scowcroft and Howard F. Sakai		Correlation of Honey Mesquite Response to Herbicides with Three Plant Variables and Soil Water—R.E. Meyer, J.D. Hanson, and	
Diets of Bison and Cattle on a Seeded Range in Southern Utah—Dirk Van Vuren and Martin P. Bray		A.J. Dye  Burning in a Bunchgrass/Sagebrush Community: The Southern Inte-	613
Effects of Surface Mining on the Vesper Sparrow in the Northern		rior of B.C. and Northwestern U.S. Compared-A.H. Johnson and	
Great Plains—Tim A. Schaid, Daniel W. Uresk, W. Lee Tucker, and Raymond L. Linder	500	R.M. Strang  Ecophysiology of Seed Germination and Flowering in Common	
Efficacy of Zinc Phosphide Broadcast Baiting for Controlling Richardson's Ground Squirrels on Rangeland—G.H. Matschke, M.P.		Broomweed, Amphiachyris dracunculoides (DC) Nutt.—Jerry M. Baskin and Carol C. Baskin	619
Marsh, and D.L. Otis	504	Biases in the Step-Point Method on Bunchgrass Ranges—David Strauss and Donald L. Neal	623
Changes in Understory Production Following a Wildfire in South- western Ponderosa Pine—Brian P. Oswald and W. Wallace Coving-		Landsat Computer-aided Analysis Techniques for Range Vegetation	
ton	507	Mapping—Jerrold F. McGraw and Paul T. Tueller  Browsed-class Method of Estimating Shrub Utilization—Ervin M.	
with Tebuthiuron-P.W. Jacoby, J.E. Slosser, and C.H. Meadors		Schmutz	632
Biological Manipulation of Blackbrush by Goat Browsing—Frederick D. Provenza, James E. Bowns, Philip J. Urness, John C. Malechek,		Feral Herbivores Suppress Mamane and Other Browse Species on Mauna Kea, Hawaii—Paul G. Scowcroft and Jon G. Giffin	638
and John E. Butcher Some Factors Affecting Twig Growth in Blackbrush—Frederick D.		M.A. Alaniz, and J.B. Lee Density and Production of Seeded Range Grasses in Southeastern	646
Provenza, John C. Malechek, Philip J. Urness, and James E.		Arizona (1970-82)-Jerry R. Cox and Gilber: L. Jordan	649
Bowns Herbicidal Control of Common Broomweed—W.E. Boyd, E.B.		Path Coefficient Analysis of Seed Yield in Big Bluestem—A. Boe and J.G. Ross	652
Herndon, and R.E. Sosebee	521	Native Performance of Some Native and Introduced Grasses in	
Dog Predation of Domestic Sheep in Ohio—Brian J. Blair and Tho- mas W. Townsend		Southern Saskatchewan, Canada—M.R. Kilcher and J. Looman  Electronic Sodium and Magnesium Sulfate on Forage Seed Germination—	654
Predicting Soluble Nitrogen and Fibrous Fractions in Crested		R.E. Ries and Hoffman	658
Wheatgrass with Near-Infrared-Reflectance Spectroscopy—Y. W. Park, M.J. Anderson, K.H. Asay, and A.W. Mahoney		Seasonal Effects of Nitrogen Fertilization on Three Species of South Texas Browse Plants—J. H. Everitt and H. W. Gausman	
Composition and Quality of Mule Deer Diets on Pinyon-Juniper Winter Range, Colorado—Richard M. Bartmann		Ecotypic Variation in Tripsacum dactyloides Evaluated in Texas— T.G. Schliesing and B.E. Dahl	665
A Mechanical Animal-powered Cov Spacer-D.M. Anderson and	1	Herbage Dynamics and Forage Quality of Texas Cupgrass (Eriochloa	
D.L. Mertz Book Reviews		sericea)—R.B. Shaw and F.E. Smeins  Viewpoint: Soil Boron Guidelines for Reclaimed Western Soils—	668
		James N. Becic	673
Number 5, September		A Multipurpose Inventory Tool—Richard E. Francis, Roger B. Kerbs, and Patrick R. Davey	675
Impact and Control of the Range Crane Fly (Tipula simplex Doane)		The Feasibility of Microwave Ovens for Drying Plant Samples— Megeen C. Smith	676
in the Central Valley of California—Margaret J. Hartman and C. Lynn Thomas		Book Reviews	678
JOURNAL OF RANGE MANAGEMENT 36(6), November 1963			815

## Number 6, November

Impacts of Cattle on Streambanks in Northeastern Oregon—J.  Boone Kauffrian, W.C. Krueger, and M. Vavra  Effects of Late Season Cattle Grazing on Riparian Plant Communities—J.	683	Effect of Water and Nitrogen, and Grazing on Nematodes in a Short- grass Prairie—James D. Smolik and Jerrold L. Dodd Pronghorn Reactions to Winter Sheep Grazing, Plant Communities,	744
Boone Kauffman, W.C. Krueger, and M. Vavra	685	and Topography in the Great Basin—Warren P. Clary and Donald M. Beale	749
Waterfowl Broods -Mark A. Rumble and Lester D. Flake 691  Effect of Time of Seeding on Emergence and Long-term Survival of  Crested Wheatgrass in British Columbia—Alastair McLean and	(A)	Diethylstilbestrol as a Temporary Chemosterilant to Control Black- tailed Prairie Dog Populations—Monte G. Garrett and William L. Franklin	753
Sandra J. Wikeem	694	An Indirect Method to Estimate the Aerial Biomass of Small Single- stemmed Woody Plants—R.D. Fitzgerald	757
Mixtures Using Glyphosate or Paraquat -K.P. Vogel, W.R. Kehr,		Long-term Effects of Big Sagebrush Control on Vegetation and Soil	131
and B.E. Anderson	700	Water—David L. Sturges	760
Genetic Variability for Characters Affecting Stand Establishment in		Using Precipitation to Predict Range Herbage Production in South-	
Crested Wheatgrass—K.H. Asay and D.A. Johnson	703	western Idaho—Clayton L. Hanson, Ronald P. Morris, and Ross Wight	766
Sneva	707	Genetic Differences in Kesistance of Kange Grasses to the Blue-	700
Effects of Soil Moisture on Burned and Clipped Idaho Fescue-C.M.		grass Billbug, Sphenophorus parvulus (Coleoptera; Curculionidae)—	
Britton, R.G. Clark, and F.A. Sneva	708	K.H. Asay, J.D. Hansen, B.A. Haws, and P.O. Currie	771
Annual Broomweed [Gutierrezia dracunculoides (DC). Black] Response to Burning and Mulch Addition—Gene Towne and Clenton Owensby	711	Residual Effects of Liquid Digested Sludge on the Quality of Broom- sedge in a Pine Plantation—L.S. Dunavin and M.C. Lutrick	
Establishment of Blue Grama and Fourwing Saltbush on Coal Mine	/11	***************************************	773
Spoils Using Saline Ground Water-Greg Weiler and Walter L.		Relationships of Site Characteristics to Vegetation in Canyon Grass-	
Gould	713	lands of West Central Idaho and Adjacent Areas E. W. Tisdale and	
Baseline Elemental Concentrations for Big Sagebrush from Western	710	Mary Bramble-Brodahl	775
U.S.A.—Larry P. Gough and James A. Erdman	718	Effects of Plant Shredding on Nutrient Content of Four South Texas  Deer Browse Species—J.H. Everitt	779
Tromble, and M. Cardenas	723	Relationship between Selected Factors and Internal Rate of Return	119
The Initial Growth of Two Range Grasses on Nonfertilized and		from Sagebrush Removal and Seeding Crested Wheatgrass-	
Fertilized Soils Collected from Creosotebush Communities in the		Ronald L. Shane, James R. Garrett, and Gary S. Lucier	782
Southwestern United States—Jerry R. Cox, Henry A. Schreiber,	726	Edaphic Factors Influencing the Control of Wyoming Big Sagebrush	
and Howard L. Morton  Correcting for Differential Digestibility in Microhistological Ana-	120	and Seedling Establishment of Crested Wheatgrass—Greg J. Chiff, James A. Young, and Raymond A. Evans	786
lyses Involving Common Coastal Forages of the Pacific Northwest—			
David M. Leslie, Jr., Martin Vavra, Edward E. Starkey, and Ron		a Sandhills Prairie — Anthony Joern	793
	730		
	733	A Simple Sack holding Frame I A Hansarian C M Prisson and	798
	133	S.S. Waller	800
Australia—H. Van Rees and G.D. Hutson	740	Book Reviews	802
lyses Involving Common Coastal Forages of the Pacific Northwest— David M. Leslie, Jr., Martin Vavra, Edward E. Starkey, and Ron C. Slater  Evaluating Management Alternatives with a Beef Production Systems Model—M.M. Kothmann and Gerald M. Smith  The Behaviour of Free-ranging Cattle on an Alpine Range in	730 733 740	Host Plant Utilization by Grasshoppers (Orthoptera: acrididae) from a Sandhills Prairie—Anthony Joern  Total Urine Collection from Free-grazing Heifers—M.A. Stillwell, R. Senft, and L. R. Rittenhouse  A Simple Sack-holding Frame—J.A. Hansmire, C.M. Britton, and S.S. Waller	793 798 800